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In the Claims**Claims 1-28 (Canceled)**

1 29. (Previously Presented) A device for applying pressure to a body limb having a
2 primary axis, comprising:

3 first and second inflatable cells, each of the first and second cells including at least three
4 intra-cell compartments; said intra-cell compartments being confluent, each compartment being
5 elongated along a primary axis of a body limb and being substantially rectangular in shape when
6 deflated and substantially cylindrical in shape when inflated, cylindrical axes of the inflated
7 compartments substantially aligning with the primary axis of the limb, the first and second cells
8 being longitudinally adjacent each other, and arranged coaxially with respect to the primary axis
9 of the limb, the first and second cells being intermittently inflatable to apply pressure to the limb,
10 wherein the inflatable cells each comprise inner and outer shells of durable flexible material, said
11 inner and outer shells being bonded together to form a perimetric cell bond to define the
12 inflatable cell therebetween, said inner and outer shells being further bonded together to form
13 compartmental bonds within the perimetric cell bond to define the plurality of intra-cell
14 compartments, wherein the perimetric cell bond includes upper and lower perimetric cell bonds
15 extending substantially in a lateral direction, and left and right perimetric cell bonds extending
16 substantially in the longitudinal direction, and wherein the compartmental bonds partly extend
17 between the upper and lower perimetric cell bonds, wherein the compartmental bonds include
18 perforations to allow for confluent air flow between compartments within a cell, neighboring
19 compartments along a lateral axis sharing a common border and being spatially fixed relative to
20 each other, such that upon inflation of a cell, the cell becomes circumferentially constricted, the
21 first and second cells being non-confluent such that the first and second cells are separately
22 inflatable;

23 means for laterally coupling outermost compartments so as to form a sleeve substantially
24 cylindrically;

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25 inflating means for intermittently inflating the first and second cells; and
26 control means for determining a treatment specificity of each cell and for determining a
27 timing sequence for inflating of each cell based on the determined treatment specificity of each
28 cell;

29 said sleeve having a center point circumference of $N\pi r$ when the cell is deflated and a
30 center point circumference of $2N\pi r$ when the cell is inflated, where N is the number of
31 compartments in the cell, and where r is the cross-sectional radius of each compartment when
32 inflated, the center point circumference being a line passing through each center point of each
33 adjacent intra-cell compartment of said inflatable cell;

34 said compartmental bonds of said intra-cell compartments, during inflation, being drawn
35 towards each other to decrease a distance therebetween and towards the center point of said
36 intra-cell compartments to decrease a distance therebetween, so as to provide for circumferential
37 constriction.

1 30. (Previously Presented) The device of claim 29, wherein the center point
2 circumference is decreased upon inflation by about 36%.

1 31. (Previously Presented) The device of claim 29, wherein the bond comprises a
2 weldment.

1 32. (Previously Presented) The device of claim 29, wherein adjacent compartments are
2 contiguous.

1 33. (Previously Presented) The device of claim 29, wherein the perforations are located
2 adjacent the perimetric cell bond.

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1 34. (Previously Presented) The device of claim 29, wherein the perforations are located
2 between compartmental bonds extending from the upper and lower perimetric bonds.

1 35. (Previously Presented) The device of claim 29, further comprising a fluid inlet to
2 provide for inflation and deflation of the cell.

1 36. (Previously Presented) An automatic portable ambulant system for applying pressure
2 to a body limb, comprising:

3 a sleeve including first and second inflatable cells, each of the first and second inflatable
4 cells including at least three intra-cell compartments;

5 said intra-cell compartments being confluent, each compartment being elongated along a
6 primary axis of a body limb and being substantially rectangular in shape when deflated and
7 substantially cylindrical in shape when inflated, cylindrical axes of the inflated compartments
8 being adapted to substantially align with the primary axis of a body limb, the first and second
9 cells being adjacent to each other and being adapted to be arranged coaxially with respect to the
10 primary axis of a body limb, the first and second cells being intermittently inflatable to apply
11 pressure to a body limb, wherein each inflatable cell comprises inner and outer shells of durable
12 flexible material;

13 said inner and outer shells being bonded together to form a perimetric cell bond, said
14 perimetric bond defining outer boundaries of an inflatable cell and boundaries between the
15 inflatable cells, said inner and outer shells being further bonded together to form compartmental
16 bonds, said compartmental bonds defining boundaries between intra-cell compartments, wherein
17 the perimetric cell bond includes upper and lower perimetric cell bonds extending substantially
18 in a lateral direction, and left and right perimetric cell bonds extending substantially in the
19 longitudinal direction, and wherein the compartmental bonds partly extend between the upper
20 and lower perimetric cell bonds, wherein the compartmental bonds include perforations to allow
21 for confluent air flow between intra-cell compartments within a cell, the first cell becoming
22 circumferentially constricted when the first cell is inflated, the second cell becoming
23 circumferentially constricted when the second cell is inflated, the first and second cells being
24 non-confluent such that the first and second cells are separately inflatable;

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25 means for laterally coupling the outermost intra-cell compartments within a cell so as to
26 form said sleeve substantially cylindrically;

27 a portable hand-held pump unit for intermittently inflating any one or more selected cells
28 of the sleeve via a conduit, said pump unit including a control unit for determining a treatment
29 specificity of each cell and for determining a timing sequence for inflating of each cell based on
30 the determined treatment specificity of each cell;

31 said sleeve having a center point circumference of $N\pi r$ when the cell is deflated and a
32 center point circumference of $2Nr$ when the cell is inflated, where N is the number of
33 compartments in the cell, and where r is the cross-sectional radius of each compartment when
34 inflated, the center point circumference being a line passing through each center point of each
35 adjacent intra-cell compartment of said inflatable cell;

36 said compartmental bonds of said intra-cell compartments, during inflation, being drawn
37 towards each other to decrease a distance therebetween and towards the center point of said
38 intra-cell compartments to decrease a distance therebetween, so as to provide for circumferential
39 constriction.

1 37. (Previously Presented) The system of claim 36, wherein said pump unit is battery
2 operated.

1 38. (Previously Presented) The system of claim 37, wherein said pump unit comprises a
2 rechargeable battery.

1 39. (Previously Presented) The system of claim 36, wherein said pump unit comprises an
2 air compressor.

1 40. (Previously Presented) The system of claim 36, wherein said conduit comprises a
2 single tube for delivering fluid to said sleeve.

1 41. (Previously Presented) The system of claim 36, wherein said conduit comprises
2 means for indicating to said control unit the treatment specificity of each cell.

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1 42. (Previously Presented) The system of claim 36, wherein said sleeve comprises at least
2 one self-operated valve.

1 **Claims 43-72 (Canceled)**

1 73. (Previously Presented) A device for applying pressure to a body limb having a
2 primary axis, comprising:

3 first and second inflatable cells, each of the first and second inflatable cells including at
4 least three intra-cell compartments;

5 said intra-cell compartments being confluent, each compartment being elongated along a
6 primary axis of a body limb;

7 said first and second inflatable cells being adjacent each other and arranged coaxially
8 with respect to the primary axis of the limb when engaged with a limb;

9 said first and second inflatable cells each including inner and outer shells of durable
10 flexible material;

11 said inner and outer shells being bonded together to form a perimetric bond about a
12 perimeter of the inflatable cell, said perimetric bond defining the inflatable cell as a volume
13 between said inner and outer shells and within the perimetric bond;

14 said inner and outer shells being further bonded together to form a plurality of
15 compartmental bonds within the inflatable cell bond, said plurality of compartmental bonds
16 defining the three intra-cell compartments

17 said perimetric cell bond including first and second perimetric cell bond portions, said
18 first and second perimetric cell bond portions being substantially parallel thereto, wherein a
19 portion of said compartmental bonds partly extending between said first and second perimetric
20 cell bond portions;

21 said compartmental bonds extending between said first and second perimetric cell bond
22 portions including perforations to allow for confluent airflow between adjacent intra-cell
23 compartments within a cell;

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24 said adjacent intra-cell compartments within a cell being spatially fixed relative to each
25 other such that upon inflation of said adjacent intra-cell compartments within the cell, the cell
26 becomes circumferentially constricted;

27 said first and second inflatable cells being non-confluent such that that said first and
28 second inflatable cells are separately inflatable;

29 means for laterally coupling outermost compartments so as to form a substantially
30 cylindrical sleeve;

31 inflating means for intermittently inflating said intra-cell compartments of said first and
32 second inflatable cells; and

33 control means for determining a treatment specificity of each cell and for determining a
34 timing sequence for inflating of each cell based on the determined treatment specificity of each
35 cell;

36 said sleeve having a first intra-cell compartment center point circumference when said
37 intra-cell compartments are deflated and a second intra-cell compartment center point
38 circumference when said intra-cell compartments are inflated, said second intra-cell
39 compartment center point circumference being less than said first intra-cell compartment center
40 point circumference so as to provide for circumferential constriction, said first and second intra-
41 cell compartment center point circumferences, each being defined as a line passing through each
42 center point of each contiguous intra-cell compartment of an inflatable cell;

43 said compartmental bonds of said intra-cell compartments, during inflation, being drawn
44 towards each other to decrease a distance therebetween and towards the center point of said
45 intra-cell compartments to decrease a distance therebetween, so as to provide for circumferential
46 constriction.

1 74. (Previously Presented) The device of claim 73 wherein a ratio of said second center
2 point circumference to said first center point circumference is about 0.64.

1 75. (Previously Presented) An automatic portable ambulant system for applying pressure
2 to a body limb, comprising:

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3 a sleeve including first and second inflatable cells;
4 said first and second inflatable cells each including at least three intra-cell compartments;
5 said intra-cell compartments being confluent;
6 said intra-cell compartments being elongated along a primary axis of a body limb;
7 said first and second inflatable cells being adjacent to each other so as to be adapted to be
8 arranged coaxially with respect to the primary axis of a body limb;
9 said first and second inflatable cells each including inner and outer shells of durable
10 flexible material;
11 said inner and outer shells being bonded together to form a perimetric bond about a
12 perimeter of the inflatable cell, said perimetric bond defining the inflatable cell as a volume
13 between said inner and outer shells and within the perimetric bond;
14 said inner and outer shells being further bonded together to form a plurality of
15 compartmental bonds within the inflatable cell bond, said plurality of compartmental bonds
16 defining at least three intra-cell compartments
17 said perimetric cell bond including first and second perimetric cell bond portions, said
18 first and second perimetric cell bond portions being substantially parallel thereto, wherein a
19 portion of said compartmental bonds partly extending between said first and second perimetric
20 cell bond portions;
21 said compartmental bonds extending between said first and second perimetric cell bond
22 portions including perforations to allow for confluent airflow between adjacent intra-cell
23 compartments within a cell;
24 said first inflatable cell becoming circumferentially constricted when said intra-cell
25 compartments of said first inflatable cell are inflated;
26 said second inflatable cell becoming circumferentially constricted when said intra-cell
27 compartments of said second inflatable cell are inflated;
28 said first and second inflatable cells being non-confluent such that the first and second
29 inflatable cells are separately inflatable;
30 means for laterally coupling the outermost intra-cell compartments within a cell so as to
31 form said sleeve into a substantially cylindrical shape; and
32 a portable hand-held pump unit for intermittently inflating any one or more selected cells

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33 of the sleeve via a conduit, said pump unit including a control unit for determining a treatment
34 specificity of each cell and for determining a timing sequence for inflating of each cell based on
35 the determined treatment specificity of each cell;

36 said sleeve having a first intra-cell compartment center point circumference when said
37 intra-cell compartments are deflated and a second intra-cell compartment center point
38 circumference when said intra-cell compartments are inflated, said second intra-cell
39 compartment center point circumference being less than said first intra-cell compartment center
40 point circumference so as to provide for circumferential constriction, said first and second intra-
41 cell compartment center point circumferences, each being defined as a line passing through each
42 center point of each contiguous intra-cell compartment of an inflatable cell;

43 said compartmental bonds of said intra-cell compartments, during inflation, being drawn
44 towards each other to decrease a distance therebetween and towards the center point of said
45 intra-cell compartments to decrease a distance therebetween, so as to provide for circumferential
46 constriction.

1 76. (Previously Presented) The system of claim 75 wherein said pump unit is battery
2 operated.

1 77. (Previously Presented) The system of claim 76 wherein said pump unit comprises a
2 rechargeable battery.

1 78. (Previously Presented) The system of claim 75 wherein said pump unit comprises an
2 air compressor.

1 79. (Previously Presented) The system of claim 75 wherein said conduit comprises a
2 single tube for delivering fluid to said sleeve.

1 80. (Previously Presented) The system of claim 79 wherein said conduit comprises
2 means for indicating to said control unit the treatment specificity of each cell.

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1 81. (Previously Presented) The system of claim 75 wherein a ratio of said second center
2 point circumference to said first center point circumference is about 0.64.

1 82. (Previously Presented) The system of claim 75 wherein said sleeve comprises at least
2 one self-operated valve.

1 **Claims 83-84 (Canceled)**

1 85. (Previously Presented) A device for applying pressure to a body limb having a
2 primary axis, comprising:

3 first and second inflatable cells;

4 said first and second inflatable cells each including at least three intra-cell compartments;

5 said intra-cell compartments being confluent;

6 said intra-cell compartments being elongated along a primary axis of the limb and being
7 substantially rectangular in shape when deflated and substantially cylindrical in shape when
8 inflated;

9 said first and second inflatable cells being adjacent each other and arranged coaxially
10 with respect to the primary axis of the limb;

11 said first and second inflatable cells each including inner and outer shells of durable
12 flexible material;

13 said first and second inflatable cells each including inner and outer shells of durable
14 flexible material;

15 said inner and outer shells being bonded together to form a perimetric bond about a
16 perimeter of the inflatable cell, said perimetric bond defining the inflatable cell as a volume
17 between said inner and outer shells and within the perimetric bond;

18 said inner and outer shells being further bonded together to form a plurality of
19 compartmental bonds within the inflatable cell bond, said plurality of compartmental bonds
20 defining at least three intra-cell compartments

21 said perimetric cell bond including first and second perimetric cell bond portions, said

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22 first and second perimetric cell bond portions being substantially parallel thereto, wherein a
23 portion of said compartmental bonds partly extending between said first and second perimetric
24 cell bond portions;

25 said compartmental bonds extending between said first and second perimetric cell bond
26 portions including perforations to allow for confluent airflow between adjacent intra-cell
27 compartments within a cell;

28 said first inflatable cell becoming circumferentially constricted when said intra-cell
29 compartments of said first inflatable cell are inflated;

30 said second inflatable cell becoming circumferentially constricted when said intra-cell
31 compartments of said second inflatable cell are inflated;

32 said first and second inflatable cells being non-confluent such that said first and second
33 inflatable cells are separately inflatable;

34 means for laterally coupling the outermost intra-cell compartments within a cell so as to
35 form a sleeve into a substantially cylindrical shape;

36 inflating means for intermittently inflating the first and second inflatable cells; and

37 control means for determining a treatment specificity of each cell and for determining a
38 timing sequence for inflating of each cell based on the determined treatment specificity of each
39 cell;

40 said sleeve having a first intra-cell compartment center point circumference when said
41 intra-cell compartments are deflated and a second intra-cell compartment center point
42 circumference when said intra-cell compartments are inflated, said second intra-cell
43 compartment center point circumference being less than said first intra-cell compartment center
44 point circumference so as to provide for circumferential constriction, said first and second intra-
45 cell compartment center point circumferences, each being defined as a line passing through each
46 center point of each contiguous intra-cell compartment of an inflatable cell;

47 said compartmental bonds of said intra-cell compartments, during inflation, being drawn
48 towards each other to decrease a distance therebetween and towards the center point of said
49 intra-cell compartments to decrease a distance therebetween, so as to provide for circumferential
50 constriction.

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1 86. (Previously Presented) The device of claim 85 wherein a ratio of said second center
2 point circumference to said first center point circumference is about 0.64.

1 87. (Previously Presented) An automatic portable ambulant system for applying pressure
2 to a body limb, comprising:

3 a sleeve including first and second inflatable cells;

4 said first and second inflatable cells each including at least three intra-cell compartments;

5 said intra-cell compartments being confluent;

6 said intra-cell compartments being elongated along a primary axis of a limb and being
7 substantially rectangular in shape when deflated and substantially cylindrical in shape when
8 inflated;

9 said first and second inflatable cells being adjacent each other and arranged coaxially
10 with respect to the primary axis of the limb;

11 said first and second inflatable cells each including inner and outer shells of durable
12 flexible material;

13 said inner and outer shells being bonded together to form a perimetric bond about a
14 perimeter of the inflatable cell, said perimetric bond defining the inflatable cell as a volume
15 between said inner and outer shells and within the perimetric bond;

16 said inner and outer shells being further bonded together to form a plurality of
17 compartmental bonds within the inflatable cell bond, said plurality of compartmental bonds
18 defining at least three intra-cell compartments

19 said perimetric cell bond including first and second perimetric cell bond portions, said
20 first and second perimetric cell bond portions being substantially parallel thereto, wherein a
21 portion of said compartmental bonds partly extending between said first and second perimetric
22 cell bond portions;

23 said compartmental bonds extending between said first and second perimetric cell bond
24 portions including perforations to allow for confluent airflow between adjacent intra-cell
25 compartments within a cell;

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26 said first inflatable cell becoming circumferentially constricted when said intra-cell
27 compartments of said first inflatable cell are inflated;

28 said second inflatable cell becoming circumferentially constricted when said intra-cell
29 compartments of said second inflatable cell are inflated;

30 said first and second inflatable cells being non-confluent such that said first and second
31 inflatable cells are separately inflatable;

32 means for laterally coupling the outermost intra-cell compartments within a cell so as to
33 form said sleeve into a substantially cylindrical shape; and

34 a portable hand-held pump unit for intermittently inflating any one or more selected cells
35 of the sleeve via a conduit, said pump unit including a control unit for determining a treatment
36 specificity of each cell and for determining a timing sequence for inflating of each cell based on
37 the determined treatment specificity of each cell;

38 said sleeve having a first intra-cell compartment center point circumference when said
39 intra-cell compartments are deflated and a second intra-cell compartment center point
40 circumference when said intra-cell compartments are inflated, said second intra-cell
41 compartment center point circumference being less than said first intra-cell compartment center
42 point circumference so as to provide for circumferential constriction, said first and second intra-
43 cell compartment center point circumferences, each being defined as a line passing through each
44 center point of each contiguous intra-cell compartment of an inflatable cell;

45 said compartmental bonds of said intra-cell compartments, during inflation, being drawn
46 towards each other to decrease a distance therebetween and towards the center point of said
47 intra-cell compartments to decrease a distance therebetween, so as to provide for circumferential
48 constriction.

1 88. (Previously Presented) The system of claim 87 wherein a ratio of said second center
2 point circumference to said first center point circumference is about 0.64.

1 89. (Previously Presented) The system of claim 87 wherein said conduit comprises a
2 single tube for delivering fluid to said sleeve.

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1 90. (Previously Presented) The system of claim 89 wherein said conduit comprises
2 means for indicating to said control unit the treatment specificity of each cell.

1 91. (Previously Presented) The system of claim 87 wherein said sleeve comprises at least
2 one self-operated valve.

1 **Claims 92-104 (Cancelled)**

1 105. (Previously Presented) An automatic portable ambulant system for applying
2 pressure to a body limb having a primary axis, comprising:

3 an inflatable cell; and

4 said inflatable cell including at least two intra-cell compartments;

5 said intra-cell compartments being confluent, each compartment being elongated in a
6 direction of the primary axis; and

7 said inflatable cell further including inner and outer shells of durable flexible material;

8 said inner and outer shells being bonded together to form a perimetric cell bond;

9 said inner and outer shells being further bonded together to form compartmental bonds
10 within said perimetric cell bond, said perimetric bond and said compartmental bonds defining the
11 intra-cell compartment;

12 said perimetric cell bond including upper and lower perimetric cell bonds;

13 said compartmental bonds partly extending between said upper and lower perimetric cell
14 bonds;

15 said compartmental bonds including perforations to allow for confluent airflow between
16 adjacent intra-cell compartments within said cell, adjacent intra-cell compartments being
17 spatially fixed relative to each other, such that upon inflation, said cell becomes
18 circumferentially constricted;

19 said inflatable cell having a first center point circumference when said intra-cell
20 compartments are deflated and a second center point circumference when said intra-cell
21 compartments are inflated, said second center point circumference being less than said first

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22 center point circumference so as to provide for circumferential constriction, said first and second
23 center point circumferences, each being defined as a line passing through each center point of
24 each contiguous intra-cell compartment of an inflatable cell;

25 said compartmental bonds, during inflation, being drawn towards each other to decrease
26 a distance therebetween and towards the center point of said intra-cell compartments to decrease
27 a distance therebetween, so as to provide for circumferential constriction;

28 a portable hand-held pump unit for intermittently inflating said inflatable cell via a
29 conduit;

30 said portable hand-held pump unit including a control unit for determining a treatment
31 specificity of said inflatable cell and for determining a timing sequence for inflating of said
32 inflatable cell based on the determined treatment specificity of said inflatable cell.

1 106. (Previously Presented) The system of claim 105 wherein said portable hand-held
2 pump unit is battery operated.

1 107. (Previously Presented) The system of claim 105 wherein said portable hand-held
2 pump unit comprises a rechargeable battery.

1 108. (Previously Presented) The system of claim 105 wherein said portable hand-held
2 pump unit comprises an air compressor.

1 109. (Previously Presented) The system of claim 105 wherein said conduit comprises a
2 single tube for delivering fluid to said inflatable cell.

1 110. (Previously Presented) The system of claim 105 wherein said conduit comprises
2 means for indicating to said control unit the treatment specificity of said inflatable cell.

1 111. (Previously Presented) The system of claim 105 wherein said inflatable cell
2 comprises at least one self-operated valve.

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1 **Claims 112-134 (Cancelled)**

1 135. (Previously Presented) An automatic portable ambulant system for applying
2 pressure to a body limb having a primary axis, comprising:

3 an inflatable cell, said inflatable cell including at least two intra-cell compartments; said
4 intra-cell compartments being confluent, each compartment being elongated in a direction of the
5 primary axis; and

6 said inflatable cell further including inner and outer shells of durable flexible material;

7 said inner and outer shells being bonded together to form a perimetric cell bond;

8 said inner and outer shells being further bonded together to form compartmental bonds
9 within said perimetric cell bond, said perimetric bond and said compartmental bonds defining the
10 intra-cell compartment;

11 said perimetric cell bond including upper and lower perimetric cell bonds;

12 said compartmental bonds partly extending between said upper and lower perimetric cell
13 bonds;

14 said compartmental bonds including perforations to allow for confluent airflow between
15 adjacent intra-cell compartments within said cell, adjacent intra-cell compartments being
16 spatially fixed relative to each other, such that upon inflation of said cell, said cell becomes
17 circumferentially constricted;

18 said inflatable cell having a center point circumference of $N\pi r$ when said cell is deflated
19 and a center point circumference of $2Nr$ when said cell is inflated, where N is the number of
20 intra-cell compartments in said cell, and where r is the cross-sectional radius of each
21 compartment when inflated, the center point circumference being a line passing through each
22 center point of each adjacent intra-cell compartment of said inflatable cell;

23 said compartmental bonds, during inflation, being drawn towards each other to decrease
24 a distance therebetween and towards the center point of said intra-cell compartments to decrease
25 a distance therebetween, so as to provide for circumferential constriction;

26 a portable hand-held pump unit for intermittently inflating said inflatable cell via a

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27 conduit;
28 said portable hand-held pump unit including a control unit for determining a treatment
29 specificity of said inflatable cell and for determining a timing sequence for inflating of said
30 inflatable cell based on the determined treatment specificity of said inflatable cell.

1 136. (Previously Presented) The system of claim 135, wherein said portable hand-held
2 pump unit is battery operated.

1 137. (Previously Presented) The system of claim 136, wherein said portable hand-held
2 pump unit comprises a rechargeable battery.

1 138. (Previously Presented) The system of claim 136, wherein said portable hand-held
2 pump unit comprises an air compressor.

1 139. (Previously Presented) The system of claim 136, wherein said conduit comprises a
2 single tube for delivering fluid to said sleeve.

1 140. (Previously Presented) The system of claim 136, wherein said conduit comprises
2 means for indicating to said control unit the treatment specificity of said inflatable cell.

1 141. (Previously Presented) The system of claim 136, wherein said sleeve comprises at
2 least one self-operated valve.